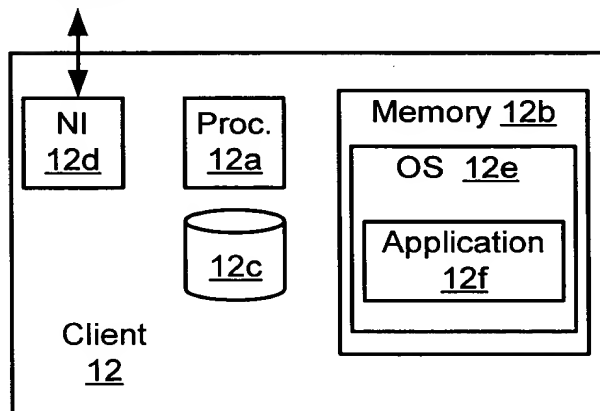
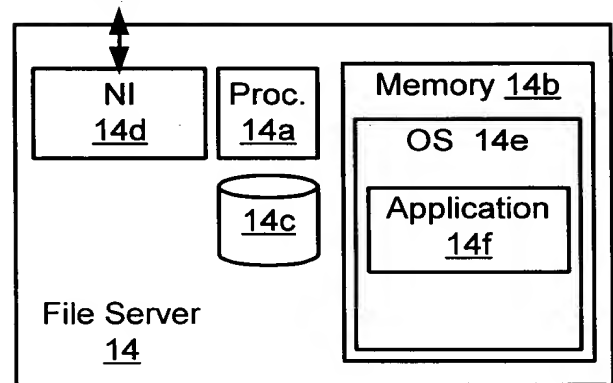


Fig. 1

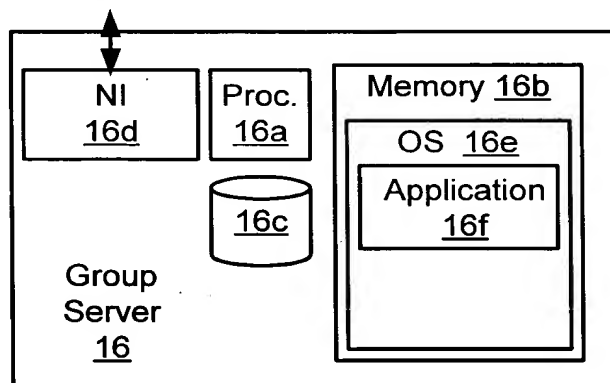
To Network 10

**Fig. 2a**

To Network 10

**Fig. 2b**

To Network 10

**Fig. 2c**

C_a	$\{K\}_{C_a \text{ Pub Key}}$
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Fig. 3a

C_a	$\{K\}_{C_a \text{ Pub Key}}$
C_b	$\{K\}_{C_b \text{ Pub Key}}$
C_c	$\{K\}_{C_c \text{ Pub Key}}$

Fig. 3b

C_a	$\{K\}_{C_a \text{ Pub Key}}$
C_b	$\{K\}_{C_b \text{ Pub Key}}$
C_c	$\{K\}_{C_c \text{ Pub Key}}$
C_d	$\{K\}_{C_d \text{ Pub Key}}$

Fig. 3c

C_a	$\{K\}_{C_a \text{ Pub Key}}$
C_b	$\{K\}_{C_b \text{ Pub Key}}$
C_c	$\{K\}_{C_c \text{ Pub Key}}$
C_d	$\{K\}_{C_d \text{ Pub Key}}$
G_1	$\{K\}_{G_1 \text{ Pub Key}}$

Fig. 3d

Fig. 4a $C_a \{K\}_{C_a \text{ Pub Key}} \{F\}_K$

Fig. 4b $C_a \{K\}_{C_a \text{ Pub Key}} C_b \{K\}_{C_b \text{ Pub Key}} C_c \{K\}_{C_c \text{ Pub Key}} \{F\}_K$

Fig. 4c $C_a \{K\}_{C_a \text{ Pub Key}} C_b \{K\}_{C_b \text{ Pub Key}} C_c \{K\}_{C_c \text{ Pub Key}}$
 $C_d \{K\}_{C_d \text{ Pub Key}} \{F\}_K$

Fig. 4d $C_a \{K\}_{C_a \text{ Pub Key}} C_b \{K\}_{C_b \text{ Pub Key}} C_c \{K\}_{C_c \text{ Pub Key}}$
 $C_d \{K\}_{C_d \text{ Pub Key}} G_1 \{K\}_{G_1 \text{ Pub Key}} \{F\}_K$

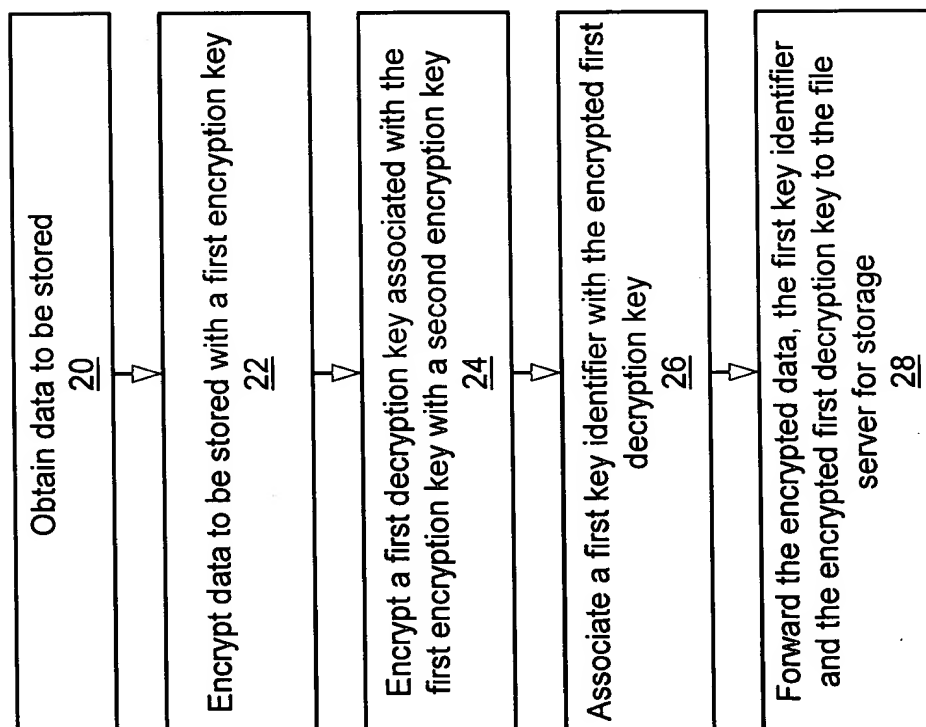


Fig. 5

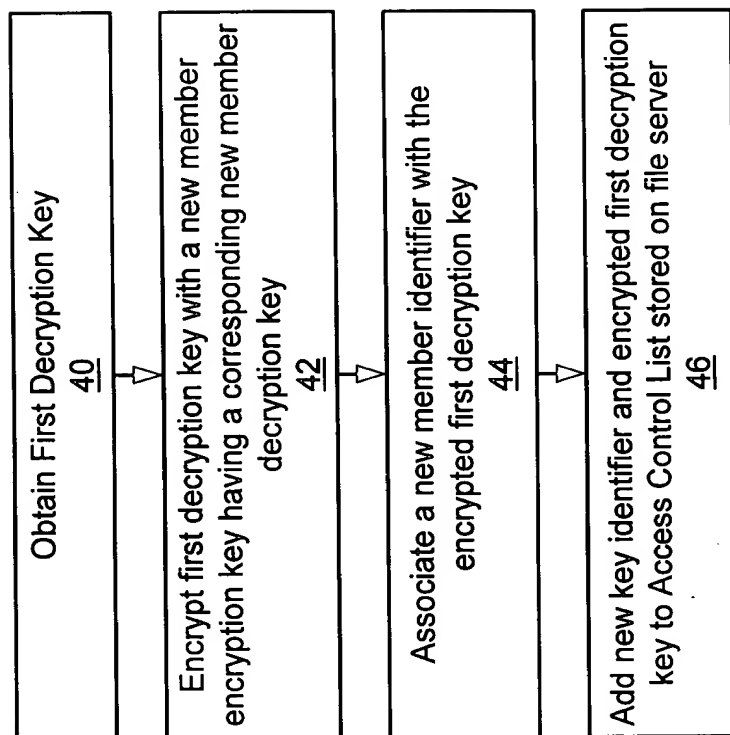


Fig. 6

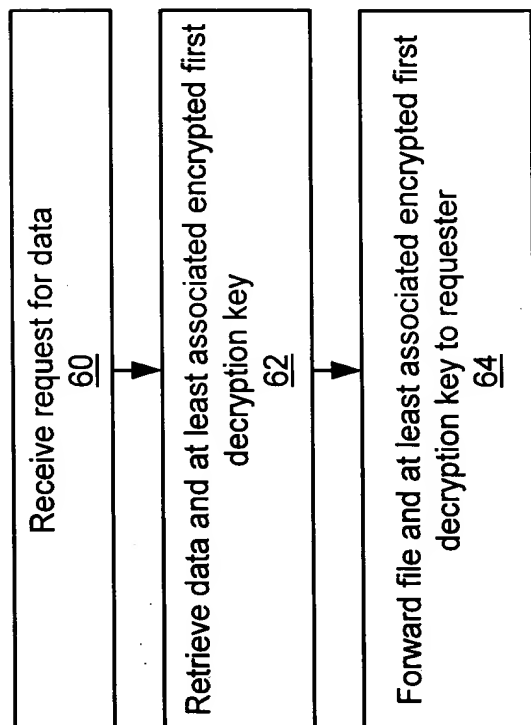


Fig. 7

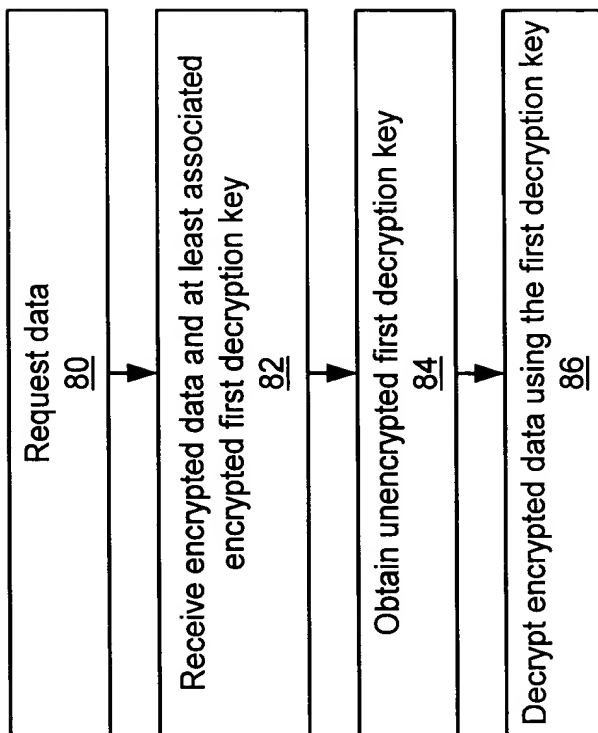


Fig. 8

$\{XK\}_{C_a}$ Pub Key

Fig. 9a

$\{XK\}_{C_a}$ Pub Key
$\{XK\}_{C_b}$ Pub Key
$\{XK\}_{C_c}$ Pub Key

Fig. 9b

$\{XK\}_{C_a}$ Pub Key
$\{XK\}_{C_b}$ Pub Key
$\{XK\}_{C_c}$ Pub Key
$\{XK\}_{C_d}$ Pub Key

Fig. 9c

$\{XK\}_{C_a}$ Pub Key
$\{XK\}_{C_b}$ Pub Key
$\{XK\}_{C_c}$ Pub Key
$\{XK\}_{C_d}$ Pub Key
$\{XK\}_{G_1}$ Pub Key

Fig. 9d

Fig. 10a $\{XK\}_{C_a}$ Pub Key $\{F\}_K$

Fig. 10b $\{XK\}_{C_a}$ Pub Key $\{XK\}_{C_b}$ Pub Key $\{XK\}_{C_c}$ Pub Key $\{F\}_K$

Fig. 10c $\{XK\}_{C_a}$ Pub Key $\{XK\}_{C_b}$ Pub Key $\{XK\}_{C_c}$ Pub Key
 $\{XK\}_{C_d}$ Pub Key $\{F\}_K$

Fig. 10d $\{XK\}_{C_a}$ Pub Key $\{XK\}_{C_b}$ Pub Key $\{XK\}_{C_c}$ Pub Key
 $\{XK\}_{C_d}$ Pub Key $\{XK\}_{G_1}$ Pub Key $\{F\}_K$